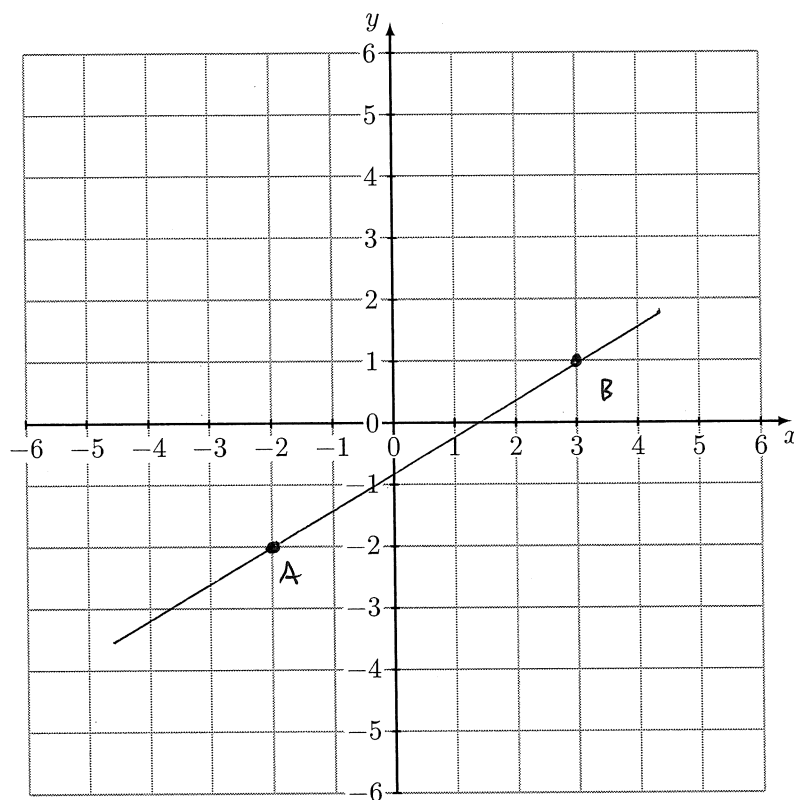


# MA 202: Quiz 10

Tuesday 04/24/2018



1. On the coordinate plane above, draw the line through the points  $A = (-2, -2)$  and  $B = (3, 1)$ . (2 points).
2. Find an equation for the line you drew in part (a). (3 points)  
(Hint: Point-slope form may be useful.)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - (-2)}{3 - (-2)} = \frac{3}{5}$$

$$y - 1 = \frac{3}{5}(x - 3)$$

in slope-int. form:

$$y = \frac{3}{5}x - \frac{9}{5} + 1$$

$$y = \frac{3}{5}x - \frac{4}{5}$$

3. What is the slope of the line which is perpendicular to the line in part (a) and passes through (1, 1)? (1 point).

$$m_2 = -\frac{1}{m} = -\frac{5}{3}$$